



RECEIVED

DEC 11 2002

TECH CENTER 1600/2900

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Panaccio et al.
Appl. No. : 09/077,574
Filed : September 24, 1998
For : THERAPEUTIC AND
DIAGNOSTIC COMPOSITIONS
Examiner : Devi, S.

) Group Art Unit 1645

) hereby certify that this correspondence
) and all marked attachments are being
) deposited with the United States Postal
) Service as first-class mail in an envelope
) addressed to: United States Patent and
) Trademark Office, P.O. Box 2327,
) Arlington, VA 22202, on

) December 2, 2002

) (Date)

) Megan M. McCoy
) Megan M. McCoy, Reg. No. 51,345

AMENDMENT

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

In response to the Office Action dated May 30, 2002 (Paper No. 22), please amend the above-captioned application as follows:

IN THE CLAIMS:

Please amend claims 1, 6-9, 12, 32, 37-40, 43, 94, 95, 108 and 114 as follows:

1. **(Amended three times)** A vaccine composition for administration to an animal, comprising:

an isolated immunogenic component of *L. intracellularis* or a related microorganism, wherein said related microorganism is an isolate or sub-type of *L. intracellularis* or other species of the genus *Lawsonia*; and

a pharmaceutically acceptable carrier.

6. **(Twice amended)** The vaccine composition according to Claim 1, wherein said immunogenic component comprises at least one macromolecule selected from the group consisting of a peptide, a protein, a carbohydrate, a lipid and a nucleic acid from *L. intracellularis* or a related microorganism, said macromolecule being present in an amount effective to induce a protective immune response against *L. intracellularis* or a related

Amdt
23/E
Wanda
12/17/02